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AUSTRALIAN MUSEUM, SYDNEY.

(CATALOGUE No. 15.)

STORAGE
CATALOGUE

OF THE

MARINE SHELLS OF AUSTRALIA AND
TASMANIA.

PART III.

GASTEROPODA
MUREX



BY

JOHN BRAZIER, C.M.Z.S., F.L.S.

PRINTED BY ORDER OF THE TRUSTEES.

E. P. Ramsay, Curator.

Sydney :

CHARLES POTTER, GOVERNMENT PRINTER.

1893.

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THE present Part contains only the Genus Murex. The remaining genera are not included, from causes beyond my control.

JOHN BRAZIER.

June, 1893.

Sub-class GASTEROPODA, Cuvier, 1798.

Order PROSOBRANCHIATA, Milne-Edwards, 1848.

Family MURICIDÆ, Fleming, 1828.

MUREX, Linné, 1758; *Purpura*, Rondelet, 1555; Tournefort, 1742;
Aranea, Perry, 1811.

Murex tribulus, Linné.

Murex tribulus, Linné, Syst. Nat., 10 edit., p. 746, No. 444, 1758. Syst. Nat., 12 edit., p. 1214, No. 519, 1766; Martini, Conch. Cab., Vol. III, pl. 113, figs. 1053, 1054, 1777; Gmelin, Syst. Nat., Tome I, pars. VI, p. 3225, No. 2, 1790; Tapparone Canefri, Muricidi del Mar Rosso, Annali del Museo Civico di Storia Naturale di Genova, Vol. VII, p. 572, 1875; Tapparone-Canefri, Molluschi raccolti nelle Isole Molucche, Annali del Museo Civico di Storia Naturale di Genova, Vol. IX, p. 294, 1876, 1877; Sowerby, Thes. Conch., Vol. IV, p. 2, *Murex*, pl. 1, fig. 3, 1879; Dunker, Index Molluscorum Maris Japonici, p. 3, 1882; Poirier, Revision des *Murex* du Muséum, Nouvelles Archives, Du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 32, No. 4, 1882; Reeve, Conch. Icon., Vol. III, pl. 20, fig. 82, 1845; Kuster, Conch. Cab., 2nd edit., p. 25, pl. 9, figs. 4, 5. II. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Hanley, Ipsa Linnæi Conchylia, pp. 279, 519, 1855; A. Adams, Proc. Zool. Soc., London, p. 370, 1862.

Murex crassispina, Lamarek, Anim. sans Vert., Vol. VII, p. 157, 1822; edit. Deshayes, Vol. IX, p. 564, 1843.

Murex tenuispina, Kiener (non Lamarek), Iconographie Coquilles Vivantes, p. 6, pl. 8, fig. 1; pl. 9, fig. 1, 1840.

Murex crassispina, Vaillant, Journ. de Conch., Vol. XIII, p. 104, No. 4, 1865; Fischer, Journ. de Conch., Vol. XIII, p. 244, 1865; Issel, Malacologia del Mar Rosso, p. 137, No. 300, 1869; Fischer, Journ. de Conch., Vol. XVIII, p. 163, No. 6, 1870.

Murex (Tribulus) tribulus, Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 145, No. 2, 1877; Tryon, Manual of Conchology, Vol. II, p. 77, pl. 9, fig. 107, 1880.

Murex crassispina, E. v. Martens in Möbius, Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen, p. 231, 1880.

Habitat.—Nicol Bay and North West Cape, Western Australia. (J. Brazier.)

***Murex tenuispina*, Lamarck.**

Murex Tribulus duplicatus, Chemnitz, Conch. Cab., Vol. XI, p. 103, pl. 189, fig. 1821, pl. 190, fig. 1822, 1795.

Murex tenuispina, Lamarck, Anim. sans Vert., Vol. VII, p., 158 (edit. Deshayes), Vol. IX, p. 566. Deshayes, Encycl. Méthod., Vers. Vol. III, p. 896, No. 4. Kiener, Iconographie Coquilles Vivantes, p. 5, pl. 6, fig. 1, pl. 7, fig. 1, 1842; Reeve, Conch. Icon., Vol. III, pl. 21, fig. 85, 1845; Kuster, Conch. Cab., 2nd edition, p. 27, pl. 11, fig. 3, pl. 20, fig. 3. A. Adams, Proc. Zool. Soc., London, p. 370, 1862; Brazier, "Chevert" Expedition Shells, Proc. Linn. Society, New South Wales, Vol. I, p. 169, 1875, 1877; Sowerby, Thes. Conch., Vol. IV, p. 2, pl. 1, Murex, fig. 7, 1879; Poirier, Revision de Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 65, 1882; E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 42, 1884.

Aranea tiremis, Perry, Conchology, pl. 45, fig. 3, 1811.

Murex tenuispinosus, Sowerby, Genera Recent and Fossil Shells, Vol. II, pl. 225.

Murex duplicatus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 71, 1853, 1858.

Murex (Tribulus) tenuispina, Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 145, No. 3, 1877.

Murex (Tribulus) tenuispina, Tryon, Manual of Conchology, Vol. II, p. 78, pl. 50, fig. 113, 1880; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 148, 1886.

Murex (Acupurpura) tenuispina, Bayle, 1880, in Fischer Manuel de Conchyliologie, Fascicule. VII, p. 641, 1884.

Habitat.—Darnley Island, Torres Straits, 28 to 30 fathoms, sandy bottom, brought up on the tangles. (J. Brazier.) Torres Straits, 7 to 10 fathoms. (Dr. R. W. Copping.) (A.M.)

***Murex ternispina*, Lamarck.**

Murex ternispina, Lamarck, Anim. sans Vert., Vol. VII, p. 158 (edit. Deshayes), Vol. IX, p. 567. Sowerby, Conchological Illustrations, Murex, species 2, fig. 110, 1840; Reeve, Conch. Icon., Vol. III, pl. 18,

fig. 73, pl. 19, fig. 76, 1845 ; Kuster, Conch. Cab., 2nd edition, p. 57 (pl. 22, figs. 3, 4, do not represent this species). Lischke, Japanische Meeres-Conchylien, Vol. I, p. 42, 1861-69 ; Issel, Malac. Mar Rosso, p. 137, No. 299, 1869.

Murex (Tribulus) ternispina, Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., p. 145, No. 4, 1877.

Murex ternispina, Sowerby, Thes. Conch., Vol. IV, p. 4, No. 11, Murex pl. 1, fig. 1, 1879 ; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 30, No. 1, 1882.

Murex (Tribulus) ternispina, Tryon, Manual of Conchology, Vol. II, p. 78, pl. 9, fig. 110, 1880 ; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 149, 1886.

Habitat.—Darnley Island, Torres Straits, 20 to 30 fathoms, sandy bottom, brought up on the tangles with *Murex tenuispina*, Lam. (J. Brazier, "Chevert" Expedition.)

This species was inadvertently omitted from my list of Muricidæ collected during the "Chevert" Expedition, Proceedings of the Linnean Society of New South Wales, Vol. I, pp. 169, 172.

Murex aduncospinosus, Beck.

Murex aduncospinosus, Beck, M.S.

Murex ternispina, Var. Sowerby, Conchological Illustrations, fig. 68, 1840.

Murex aduncospinosus, Reeve, Conch. Icon., Vol. III, pl. 23, fig. 93, 1845 ; Beck ; A. Adams, Proc. Zool. Soc., London, p. 370, 1862 ; Beck ; H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 71, 1853, 1878 ; Beck ; Schmeltz, jr., Museum Godeffroy Catalog, V. p. 130, No. 6,470, 1874.

Murex (Tribulus) aduncospinosus, Beck ; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 145, No. 7, 1877.

Murex tribulus, Sowerby, Thes. Conch., Vol. IV, p. 2, Murex, pl. 1, fig. 4, 1879.

Murex (Tribulus) ternispina, Tryon, Manual of Conchology, Vol. II, p. 78, pl. 10, fig. 114, 1880 ; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 146, No. 1, 1886.

Murex aduncospinosus, Reeve (Beck) ; Dunker, Index Molluscorum Maris Japonici, p. 3, 1882 ; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 32, No. 4, 1882.

Habitat.—Nicol Bay, North West Coast of Australia. (W. H. Hargraves.) Torres Straits. (Captain C. Edwards.) (A.M.)

Murex rarispina, Lamarck.

Martini, Conch. Cab., Vol. III, pl. 13, fig. 1055, 1777.

Murex rarispina, Lamarck, Anim. sans Vert., Vol. VII, p. 158, No. 5, 1822 ; 2nd edition, Vol. IX, p. 567. Kiener, Iconographie Coquilles Vivantes, p. 17, pl. 11, fig. 1, 1842 ; Reeve, Conch. Icon., pl. 21, fig. 86, 1845 ; H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 71, 1853.

Murex formosus, Sowerby, Conchological Illustrations, species 16, fig. 112 ; Proc. Zool. Soc., London, p. 139, 1840. Thes. Conch., Vol. IV, p. 6, Murex, pl. 1, fig. 6, 1879.

Murex (Tribulus) rarispina, Kobelt, Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 145, No. 9, 1877 ; Tryon, Manual of Conchology, Vol. II, p. 79, pl. 10, fig. 115, 1880.

Murex rarispina, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 37, No. 17, 1882 ; Hedley, Proceedings Royal Society, Queensland, Vol. XI, Part V, p. 240, 1889.

Habitat.—Port Darwin, Northern Territory. (W. T. Bednall, 1875.)
Cambridge Gulf, Tasman Land, North Australia. (W. Saviile-Kent.)

Murex Martinianus, Reeve.

Martini, Conch. Cab., Vol. III, pl. 113, fig. 1156, 1777.

Murex rarispina, Sowerby (non Lamarck), Conchological Illustrations, species 4, fig. 52, 1840.

Murex Martinianus, Reeve, Proc. Zool. Soc., London, p. 88, 1845. Reeve, Conch. Icon., Vol. III, pl. 18, fig. 72, 1845. Kuster, Conch. Cab., 2nd edition, p. 59, pl. 9, fig. 3, pl. 22, fig. 7, 8.

Murex trapa, Bolten ; H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858. Bolten ; Schmeltz, jr., Museum Godeffroy, Catalogue V, p. 130, No. 3,296, 1874.

Murex (Tribulus) Martinianus, Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 146, No. 12, 1877.

Murex rarispina, Sowerby (non Lamarck), Thes. Conch., Vol. IV, Murex, pl. 1, fig. 2, 1879.

Murex Martinianus, Tryon, Manual of Conchology, Vol. II, p. 78, pl. 11, fig. 118, 1880. Dunker, Index Molluscorum Maris Japonici, p. 3, 1882.

Murex Martianus, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 34, No. 10, 1882.

Murex trapa, Bolten ; Mörch, Yoldi Cat., p. 98.

Habitat.—Port Denison, North Queensland. (Madame A. Dietrich.)

Murex Macgillivrayi, Dohrn.

Murex Macgillivrayi, Dohrn, Proc. Zool. Soc., London, p. 203, No. 4, 1862.

Murex brevispina, Brazier (non Lamarek), "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 169, No. 2, 1875, 1877.

Murex Macgillivrayi, Sowerby, Thes. Conch., Vol. IV, p. 3, pl. 17, fig. 162, (wrongly coloured), 1879.

Murex (Tribulus) scolopax, Tryon, Manual of Conchology, Vol. II, p. 77, pl. 24, fig. 203, 1880, copied from Sowerby.

Murex Macgillivrayi, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 35, No. 12, 1882 ; E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 44, pl. 5, fig. C, 1884.

Murex (Tribulus) Macgillivrayi, Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 147, 1886.

Habitat.—Lizard Island, North Queensland. (John Macgillivray.) Princess Charlotte Bay, 14 fathoms sandy mud bottom ; Cape Grenville, North Queensland, 20 to 30 fathoms ; Cleveland Bay. (J. Brazier, "Chevert" Expedition.) Cape York, 6 to 11 fathoms ; Port Curtis (A.M.) 10 to 11 fathoms ; Port Darwin, 8 to 12 fathoms ; Prince of Wales Channel, Torres Straits, 7 to 9 fathoms. (Dr. Coppinger.) Cape York, off Albany Island, North Queensland, 3 to 12 fathoms (H.M.S. "Challenger") ; Port Darwin, Northern Territory. (T. W. Bednall, 1875.) (A.M.)

Murex acanthodes, Watson.

Murex (Tribulus) acanthodes, Watson, Prelim. Report, Part XV, Journal Linnean Society, Zool., London, Vol. XVI, p. 599, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 151, pl. 10, fig. 1, 1886.

Habitat.—Cape York, off Albany Island, North Australia, 3 to 12 fathoms. (H.M.S. "Challenger.")

Murex Coppingeri, E. A. Smith.

Murex Coppingeri, E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 42, pl. 5, fig. A, 1884.

Habitat.—Dundas Straits. Melville Island. North Coast of Australia, 17 fathoms. (Dr. Coppinger.) Port Darwin Beach. (W. T. Bednall, 1875.)

Murex acanthostephes, Watson.

Murex (Tribulus) acanthostephes, Watson, Prelim. Report, Part XV, Journal Linnean Society, Zool., London, Vol. XVI, p. 593. Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 149, pl. 10, fig. 2, 1886.

Murex acanthostephes, E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 43, pl. 5, fig. B, 1884.

Habitat.—Arafura Sea, North West Coast of Australia, 32 to 36 fathoms, bottom mud, sand, and shells. (Dr. R. W. Coppinger.) West of Cape York, off South West point of New Guinea, 28 fathoms. (H.M.S. "Challenger.")

Murex eximius, Brazier.

Murex eximius, Brazier, "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 170, No. 3, 1875, 1877. Tryon, Manual of Conchology, Vol. II, p. 80, 1880.

Habitat.—Daruley Island, Torres Straits, 30 fathoms, brought up on the tangles, bottom sand. (J. Brazier.)

HAUSTELLUM, Klein, 1753; *BRONTES*, Montfort, 1810;

HAUSTELLARIA, Swainson, 1840.

Murex haustellum, Linné.

Murex haustellum, Linné, Syst. Nat., edition XII, p. 1213, No. 518, 1766. Gmelin, Syst. Nat., Vol. I, Part VI, p. 3524, No. 1, 1790.

Haustellum fimbriatenodosum, Martini, Conch. Cab., Vol. III, p. 376, pl. 115, fig. 1066, 1777.

Aranea denudata, Perry, Conchology, pl. 45, fig. 1, 1811.

Haustellum læve, Schumacher, Nouv. Syst., p. 213, 1817.

Murex haustellum, Lamarck, Anim. sans Vert., Vol. III, p. 159, No. 8, 1822; 2nd edition, Vol. IX, p. 568. Kiener, Iconographie Coquilles Vivantes, p. 10, pl. 13, fig. 1, 1842; Reeve, Conch. Icon., Vol. III, pl. 23, fig. 95, 1845; Kuster, Conch. Cab., 2nd edition, p. 35, pl. 14, fig. 3. Hanley, Ipsa Linnæi Conchyliæ, p. 279, 1855.

Murex (Haustellum) haustellum, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Schmeitz, jr., Museum Godeffroy, Catalog V, p. 130, No. 3297, 1874.

Murex (Haustellum) haustellum, Tapparone-Canefri, Muricidi del Mar Rosso, Annali del Museo Civico di Storia Naturale di Genova, Vol. VII, p. 574, 1875; Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Annales de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 10, 1880; Dunker, Index Molluscorum Maris Japonici, p. 4, 1882; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 42, No. 42, 1882.

Murex haustellum, Kobelt, Die Muriciden des rothen Meeres, Jahrb. d. deutsch. malak. Gesellsch., Vol. III, p. 40, No. 6, 1876; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 148, No. 36, 1877; Sowerby, Thes. Conch., Vol. IV, p. 5, Murex, pl. 2, fig. 17, 1879; Tryon, Manual of Conchology, Vol. II, p. 83, pl. 13, fig. 137, 1880; E. v. Martens, in Mobius, Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen, p. 231, 1880.

Habitat.—Nicol Bay and Dampier's Archipelago, North-West Australia. (J. F. Bailey.)

CHICOREUS, Montfort, 1810; *CHICHOREUS*, Tapparone Canefri, 1874; *CICHOREUS*, E. v. Martens, 1880.

Murex ramosus, Linné.

Murex ramosus, Linn., Syst. Nat., Ed. XII, p. 1215, 1766.

Purpura eques frasicus, Martini, Conch. Cab., Vol. III, p. 308, pl. 102, fig. 980, pl. 103, fig. 981, 1777.

Purpura incarnata, Bolten, Museum Boltenianum, 1st edition, p. 142.

Murex inflatus, Lamarek, Anim. sans Vert., Vol. VII, p. 160, 1822; edit. Deshayes, Vol. IX, p. 570, 1843; Kuster, Conch. Cab., 2nd edition, p. 5, pl. A; pl. 1, fig. 1; pl. 2, fig. 2. Kiener, Iconographie Coquilles Vivantes, p. 21, pl. 1, 1842; Kobelt, Die Muriciden des rothen Meeres, Jahrb. d. deutsch. malak. Gesellsch., Vol. III, p. 40, No. 7, 1876.

Murex ramosus, Reeve, Conch. Icon., Vol. III, pl. 1, fig. 3, 1845.

Murex (Chicoreus) frondosus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858.

Murex (Chicoreus) ramosus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, part III, p. 72, 1853, 1858; Brazier, "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 170, No. 4, 1875, 1877.

Murex (Chicoreus) incarnatus, Tapparone-Canefri, Muricidi del Mar Rosso, Annali del Museo Civico di Storia Naturale di Genova, Vol. VII, p. 575, 1875.

Murex (Chicoreus) inflatus Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 148, 1877.

Murex ramosus, Sowerby, Thes. Conch., Vol. IV, p. 11, pl. 8, Murex, fig. 69, 1879.

Murex (Chicoreus) inflatus, E. v. Martens in Möbius Beiträge zur Meeres-fauna der Insel Mauritius und der Seychellen, p. 231, 1880.

Murex (Chicoreus) ramosus, Tryon, Manual of Conchology, Vol. II, p. 95, pl. 1, figs. 1, 2, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 50, No. 52, 1882.

Murex (Chicoreus) incarnatus, Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Mémoires de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 13, 1880.

Murex frondosus, Mörch, Yoldi Catalogue, p. 97.

Murex incarnatus, Mörch, Yoldi Catalogue, p. 97.

Habitat.—Darnley Island, Torres Straits, found on the reefs. (J. Brazier.) Nicol Bay, Western Australia. (J. F. Bailey.)

Murex monodon, Sowerby.

Martini, Conch. Cab., Vol. III, p. 314, pl. 105, figs. 987, 988, 1777.

Murex Monodon, Sowerby, Tankerville Catalogue, Appendix, p. 19, No. 1703, 1825; Lamarck, Anim. s. Vert. (edit. Deshayes), Vol. IX, p. 604, 1843; Reeve, Conch. Icon., Vol. III, pl. 5, fig. 21, 1845. Kuster, Conch. Cab., 2nd edition, p. 39, pl. 16, figs. 1, 2. Sowerby, Thes. Conch., Vol. IV, p. 10, pl. 8, Murex, figs. 55, 56, 1879.

Murex aranea, Kiener, Iconographie Coquilles Vivantes, p. 34, pl. 36, fig. 1, 1842.

Murex (Chicoreus) monodon, Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 151, 1877.

Murex (Chicoreus) monodon, Tryon, Manual of Conchology, Vol. II, p. 92, pl. 16, fig. 158, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 37, No. 42, 1882.

Murex monodon, E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 46, No. 18, 1884.

Murex (Euphyllon) monodon, Jousseaume, 1880, in Fischer, Manuel de Conchyliologie, Fascicule VII, p. 641, 1884.

Murex (Chicoreus) monodon, Brazier, Proc. Linn. Soc., New South Wales, Vol. IX, p. 793, 1884, 1885; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 154, 1886.

Habitat.—Dupuch Island, Western Australia. (Lieutenant Dring, R.N.) Cossack, Dampier's Land, North West Coast of Australia. (J. F. Bailey.) Albany Island, North Queensland, 3, 8 fathoms. (Dr. Coppinger.) Near Cape York, 6 fathoms, coral mud. (H.M.S. "Challenger.") Nicol Bay, North-West Australia. (A.M.)

Dupuch Island is not in Torres Straits, as quoted by Reeve and other authors.

Murex cervicornis, Lamarek.

Murex cervicornis, Lamarek, Anim. sans Vert., Vol. VII, p. 163, No. 19, 1822 (edit. Deshayes), Vol. IX, p. 575, No. 19, 1843; Sowerby, Genera Recent and Fossil Shells, Vol. II, *Murex*, pl. 224, fig. 4. Kiener, Iconographie Coquilles Vivantes, p. 32, pl. 20, fig. 2, 1842; Reeve, Conch. Icon., Vol. III, pl. 16, fig. 66, 1845; Kuster, Conch. Cab., 2nd edition, p. 87, pl. 31, figs. 5, 6.

Murex (Chicoreus) cervicornis, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 152, No. 69, 1877; Brazier, "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 171, No. 8, 1875, 1877; Tryon, Manual of Conchology, Vol. II, p. 92, pl. 15, fig. 155, 1880; Poirier, Revision des *Murex* du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 46, No. 44, 1882; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 154, 1886.

Murex cervicornis, Sowerby, Thes. Conch., Vol. IV, p. 11, pl. 3, *Murex*, fig. 30, 1879; E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 45, No. 16, 1884; Hedley, Proc. Royal Society, Queensland, Vol. VI, Part V, p. 240, 1889.

Habitat.—New Holland. (Lamarek.) Darnley Island, Torres Straits, 20, 30 fathoms, sandy mud bottom brought up in the dredge and on the tangles. (J. Brazier, 1875.) Thursday Island, 4 fathoms; Prince of Wales Channel; Torres Straits; Clairmont Island, 11 fathoms; Port Darwin, Northern Territory, 8, 12 fathoms. (Dr. R. W. Coppinger.) Nicol Bay, North West Coast of Australia, found on the beaches after gales; Albany Passage, Cape York, North Queensland; off Twofold Bay, New South

Wales, 150 fathoms. (J. Brazier.) Off Sydney Heads, 80, 90 fathoms sandy bottom. (Henry Prince and T. Haylock.) Near Cape York, 6 fathoms, coral mud; West of Cape York, off South West point of Papua, 28 fathoms, green mud. (H.M.S. "Challenger.") Port Darwin, Northern Territory. (W. Saville-Kent.) East Coast of Australia. (British Museum.)

***Murex recticornis*, Martens.**

Murex recticornis, E. v. Martens; Kobelt in Jahrb. d. deutsch. malak. Gesellsch., Vol. VII, p. 81, pl. 3, fig. 3, 1880.

Habitat.—East Coast of Australia, 26° 5 S. Lat. in 76 fathoms, obtained by the Expedition of the German War-ship "Gazelle."

The above locality is off the Queensland Coast, near Wide Bay; this species is nearly allied to *Murex cervicornis*, Lam.

***Murex axicornis*, Lamarek.**

Martini, Conch., Cab., Vol. III, pl. 105, fig. 989, 1777.

Murex axicornis, Lamarek, Anim. sans Vert., Vol. VII, p. 163, No. 18, 1822 (2nd edition Deshayes), Vol. IX, p. 574, 1843; Kiener, Iconographie Coquilles Vivantes, p. 31, pl. 42, fig. 2, 1842; Kuster, Conch. Cab., 2nd edition, p. 40, pl. 16, fig. 3; pl. 21, fig. 3. Reeve, Conch. Icon., Vol. III, pl. 15, fig. 37; pl. 10, fig. 37, Variety, 1845.

Murex axicornis, Var., Sowerby, Conchological Illustrations, species 30, fig. 66, 1840.

Murex (Chicoreus) axicornis, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Brazier, Proc. Linn. Soc., New South Wales, Vol. I, p. 171, No. 7, 1875, 1877; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 152, No. 68, 1877.

Murex axicornis, Sowerby, Thes. Conch., Vol. IV, p. 11, pl. 3, Murex, fig. 31, 1879. E. A. Smith, Voyage of H.M.S. "Alert," Collections, p. 44, No. 15, 1884.

Murex (Chicoreus) axicornis, Tryon, Manual of Conchology, Vol. II, p. 92, pl. 16, fig. 161, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 46, No. 43, 1882.

Habitat.—Palm Island, North East Coast of Australia, now called North Queensland, 8 fathoms, muddy bottom. (J. Brazier.) Prince of Wales Channel, 5, 7 fathoms, and Thursday Island, Torres Straits, 4 fathoms. (Dr. R. W. Coppinger.) (A.M.)

Murex Sauliæ, Sowerby.

Murex Saulii, Sowerby, Proc. Zool. Soc., London, p. 141, 1840; Sowerby, Conchological Illustrations, species 34, fig. 77, 1840; Deshayes in Lamarek, Anim. sans. Vert., Vol. IX, p. 607, No. 76, 1843.

Murex palmarosæ, Var., Kiener, Iconographie Coquilles Vivantes, p. 29, 1842.

Murex Saulæ, Reeve, Conch. Icon., Vol. III, pl. 8, fig. 31, 1845.

Murex (Chicoreus) Sauliæ, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, 1853, 1858; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 149, No. 41, 1877.

Murex Saulii, Liénard, Catalogue de la Faune Malacologique de l'île Maurice, p. 2, No. 14, 1877.

Murex Saulæ, Sowerby, Thes. Conch., Vol. IV, p. 13, pl. 4, Murex, fig. 44; pl. 22, fig. 212, 1879.

Murex (Chicoreus) Sauliæ, Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Mémoires de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 12, 1880.

Murex (Chicoreus) Sauliæ, Martens in Möbius, Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen, p. 232, 1880.

Murex (Chicoreus) maurus, Var., Tryon, Manual of Conchology, Vol. II, p. 89, pl. 14, fig. 142, 1880.

Murex (Chicoreus) saullæ, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 54, No. 61, 1882.

Habitat.—Torres Straits, North Coast of Australia. (W. H. Hargraves.) Vlaming Head, North West Cape, Western Australia. (J. Brazier.) (A.M.)

Murex torrefactus, Sowerby.

Murex torrefactus, Sowerby, Proc. Zool. Soc., London, p. 141, 1840; Sowerby, Conchological Illustrations, species 35, fig. 120, 1840; Reeve, Conch. Icon., Vol. III, pl. 10, fig. 41, 1845; Sowerby, Thes. Conch., Vol. IV, p. 15, pl. 5, Murex, fig. 47, 1879.

Murex microphyllus, Kiener (non Lamarek), Iconographie Coquilles Vivantes, pl. 23, fig. 1, 1842.

Murex (Chicoreus) torrefactus, Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 150, No. 47, 1877; Tryon, Manual of Conchology, Vol. II, p. 89, pl. 14, fig. 145, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 56, No. 66, 1882.

Habitat.—Nicol Bay, North West Coast of Australia. (W. H. Hargraves.) (A.M.)

Murex microphyllus, Lamarek.

Purpura variegata, Martini, Conch. Cab., Vol. III, pp. 305, 322, pl. 106, fig. 995, 1777.

Murex microphyllus, Lamarek, Anim. sans Vert., Vol. VII, p. 163 (edit. Deshayes), Vol. IX, p. 575. Sowerby, Conchological Illustrations, species 38, fig. 105, 1841; Reeve, Conch. Icon., Vol. III, pl. 10, fig. 40, 1845; Kuster, Conch. Cab., 2nd edition, p. 18, pl. 6, fig. 3.

Murex (Chicoreus) microphyllus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Schmeltz, jr., Museum Godeffroy Catalog V, p. 103, No. 1,057, 1874; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 149, 1877; Tryon, Manual of Conchology, Vol. II, p. 89, pl. 14, fig. 144, 1880; Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Mémoires de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 19, 1880.

Murex (Cichoreus) microphyllus, E. v. Martens in Möbius Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen, p. 232, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 56, No. 65, 1882.

Habitat.—Torres Straits. (C. E. Beddome, Dr. J. C. Cox.)

Murex maurus, Broderip.

Murex maurus, Broderip, Proc. Zool. Soc., London, p. 174, 1832; Kiener, Iconographie Coquilles Vivantes, p. 39 (*Murex adustus*, in part); Sowerby, Conchological Illustrations, species 39, figs. 12, 67, 1840; Reeve, Conch. Icon., Vol. III, pl. 4, fig. 16, 1845; Deshayes in Lamarek, Anim. sans Vert., Vol. IX, p. 573, note 1843; Sowerby, Thes. Conch., Vol. IV, p. 15; *Murex*, pl. 5, fig. 54, 1879.

Murex (Chicoreus) maurus, Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 150, No. 48, 1877; Tryon, Manual of Conchology, Vol. II, p. 89, pl. 14, fig. 139, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 59, No. 70, 1882; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 154, 1886.

Habitat.—Cape York, off Albany Island, Torres Straits, 3 to 12 fathoms. (H.M.S. "Challenger.") Holborn Island, off Port Denison, Queensland, 6 fathoms, sand bottom. (J. Brazier.)

Murex Banksi, Sowerby.

Murex Banksii, Sowerby, Proc. Zool. Soc., London, p. 141, 1840; Conchological Illustrations, species 31, fig. 82, 1840; Kiener, Iconographie Coquilles Vivantes, p. 36, pl. 21, fig. 1; Reeve, Conch. Icon., Vol. III, pl. 10, fig. 38, 1845; Kuster, Conch. Cab., 2nd edition, p. 120, pl. 36, fig. 6; Sowerby, Thes. Conch., Vol. IV, p. 17; *Murex*, pl. 6, fig. 59.

Murex (Chicoreus) Banksii, Tapparone-Canefri, Muricidi Del Mar Rosso, Annali del Museo Civico di Storia Naturale di Genova, Vol. VII, p. 580, 1875.

Murex (Chicoreus) Banksii, Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 150, No. 54, 1877; Tryon, Manual of Conchology, Vol. II, p. 89, pl. 14, fig. 141, 1880.

Habitat.—Nicol Bay, North West Australia. (A.M.) (Mr. W. H. Hargraves.)

Murex adustus, Lamarck.

Purpura Brandaris niger, Martini, Conch. Cab., Vol. III, p. 317, pl. 105, figs. 990, 991, 1777.

Purpura scabra, Martyn, Universal Conchologist, Vol. II, fig. 113, 1789.

Murex adustus, Lamarck, Anim. sans Vert., Vol. VII, p. 162 (edition Deshayes), Vol. IX, p. 573.

Triplex flavicunda, Perry, Conchology, pl. 6, fig. 2, 1811.

Triplex rubicunda, Perry, Conchology, pl. 6, fig. 4, 1811.

Murex adustus, Blainville, Manuel de Malacologie et Conchyliologie, Vol. I, p. 401; Vol. II, pl. 19, fig. 4, 1825; Kiener, Iconographie Coquilles Vivantes, p. 38, pl. 33, fig. 1, 1842; Menke, Molluscorum Novae Hollandiae, p. 24, No. 110, 1843; Reeve, Conch. Icon., Vol. III, pl. 8, fig. 29, 1845; Kuster, Conch. Cab., 2nd edition, p. 31, pl. 13, fig. 5; Eydoux et Souleyet, Voyage de la "Bonite" Zoologie, Vol. II, p. 619, Atlas pl. 44, figs. 3, 5, 1852; A. Adams, Proc. Zool. Soc., London, p. 371, 1862.

Murex despectus, A. Adams, Proc. Zool. Soc., London, p. 72, 1853.

Murex (Chicoreus) adustus, E. A. Smith, Annals Mag. Nat. History, 4 series, Vol. XV, p. 419, No. 20, 1875; Brazier, "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 170, No. 5, 1876; Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 149, 1877; Tryon, Manual of Conchology, Vol. II, p. 90, pl. 15, fig. 149, pl. 24, fig. 211, 1880; E. v. Martens in Möbius, Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen, p. 232, 1880;

Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Mémoires de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 11, 1880; Dunker, Index Molluscorum Maris Japonici, p. 4, 1882; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 59, No. 72, 1882; E. A. Smith, Marine Mollusca of St. Helena, Proc. Zool. Soc., London, p. 258, 1890.

Murex adustus, Liénard, Catalogue de la Faune Malacologique de l'île Maurice, p. 2, No. 3, 1877; Sowerby, Thes. Conch., Vol. IV, p. 16, Murex, pl. 4, figs. 42, 43, 1879.

Murex despectus, Sowerby, Thes. Conch., Vol. IV, p. 16, Murex, pl. 9, fig. 85, 1879.

Habitat.—Darnley Island, Torres Straits; found on the reefs at low water, under coral and stones. (J. Brazier.) King's Sound, North-West Australia. (A.M.)

Murex capucinus, Chemnitz.

Martini, Conch. Cab., Vol. III, pl. 105, fig. 993, 1777.

Murex monachus capucinus, Chemnitz, Conch. Cab., Vol. XI, p. 123, pl. 192, fig. 1849, 1850, 1795.

Murex ramosus, Variety C, Dillwyn, Descriptive Catalogue of Recent Shells, Vol. II, p. 687, 1817.

Murex capucinus, Lamarck, Anim. sans Vert., Vol. VII, p. 164, 1822 (2nd edition, Deshayes). (Vol. IX, p. 576, 1843); Deshayes, Encyclopédie Méthodique Histoire Naturelle Des Vers, Tome III, p. 900, No. 12, 1832; Lamarck; Sowerby, Conchological Illustrations, p. 3, species 40, 1840; Lam.; Kiener, Coquilles Vivantes, p. 42, pl. 45, fig. 2, 1842.

Murex capucinus, Lam.; Menke, Molluscorum Novae Hollandiae, p. 24, No. 111, 1843. Chemnitz; Reeve, Conch. Icon., Vol. III, pl. 2, fig. 10, 1845. Lamarck; Kuster, Conch. Cab., 2nd edition, p. 32, pl. 13, figs. 6, 7. Chemnitz; Tapparone-Canefri, III. Contribuzioni Per Una Fauna Malacologica Delle Isole Papuane, Annali del Museo Civico di Storia Naturale di Genova, Vol. VIII, p. 323, 1876.

Murex (Chicoreus) capucinus, Chemnitz; H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Chemnitz; Schmeltz, jr., Muséum Godeffroy Catalog V, p. 130, No. 591, 1874. Lamarck; Kobelt, Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 150, No. 50, 1877; Tryon, Manual of Conchology, Vol. II, pp. 99, 134, pl. 19, fig. 174, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 63, No. 85, 1882.

Murex (Chichoreus) capucinus, Tapparone-Canefri, Contribuzioni Per Una Fauna Malacologica Delle Isole Papuane, Annali del Museo Civico di Storia Naturale di Genova, Vol. VI, p. 550, 1874.

Murex capucinus, Chemnitz; Sowerby, Thes. Conch., Vol. IV, p. 18, *Murex*, pl. 4, fig. 40, 1879; Hedley, Proc. Royal Society, Queensland, Vol. VI, Part V, p. 240, 1889.

Habitat.—Torres Straits. (A.M.) Port Darwin, Northern Territory, (T. W. Bednall, 1875.) Port Essington, Coburg Peninsular, Northern Territory. (E. Spalding.) Great Barrier Reef, east of Cape Sidmouth, North Queensland; found under coral blocks at half tide (J. Brazier, "Eclipse" Expedition, December, 1871.) Cambridge Gulf, North-West Australia; Port Darwin, Northern Territory; Barrier Reef. (W. Saville-Kent, 1888.)

***Murex Australiensis*, A. Adams.**

Murex Australiensis, A. Adams, Proc. Zool. Soc., London, p. 72, 1853. Sowerby, Thes. Conch., Vol. IV, p. 16, *Murex*, pl. 6, fig. 58, 1879.

Murex (Ocinebra) Australiensis, Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 248, No. 224, 1877.

Murex (Chicoreus) adustus, Var. Tryon, Manual of Conchology, Vol. II, p. 90, pl. 24, fig. 210, 1880.

Murex (Chicoreus) Australiensis, Poirier, Revision des *Murex* du Muséum Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 61, No. 75, 1882.

Habitat.—Australia (Mus. Cuming in British Museum). Wreck Reef, Coral Sea, off the North Queensland Coast, outside the Great Barrier Reef. (J. Brazier, 1856.) (A.M.)

This species is not found in South Australia as quoted by Mr. G. B. Sowerby in Thesaurus Conchyliorum, *Murex*, pl. 6.

***Murex Huttoniæ*, Wright.**

Murex Huttoniæ, Wright, Annales de la Société Malacologique de Belgique, Tome XIII (Deuxième Series, Tome III), p. 85, pl. 9, 1878; Sowerby, Thes. Conch., Vol. IV, p. 17, *Murex*, pl. 6, fig. 57, 1879.

Murex (Chicoreus) adustus, Variety, Tryon, Manual of Conchology, Vol. II, p. 90, pl. 25, fig. 217, 1880.

Murex (Chicoreus) Huttoniæ, Poirier, Revision des *Murex* du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 60, No. 74, 1882.

Habitat.—New Caledonia. (Wright.) Wreck Reef, Coral Sea, off the North Queensland Coast, outside the Great Barrier Reef; Chesterfield Shoals and Island, and Bampton Reef, West North West from New Caledonia. (J. Brazier, 1855, 1856.) (A.M.)

These two species, *M. Australiensis*, A. Adams, and *M. Huttonia*, Wright, are classed by Mr. Tryon, who was only acquainted with these shells by figures and not by specimens, in his Manual as mere varieties of *M. adustus*, Lamarek. In this he is wrong, for they are certainly quite distinct from that species, both as regards fronds, sculpture, and colour.

***Murex australis*, Quoy and Gaimard.**

Triplex pondosa, Perry, Conchology or the Natural History of Shells, pl. VI, fig. 1, 1811.

Murex australis, Quoy et Gaimard, Voyage de "l'Astrolabe," Tome II, p. 536, 1832.

Murex palmiferus, Sowerby, Proc. Zool. Soc., London, p. 142, 1840; Conchological Illustrations, species 43, fig. 104, 1840; Reeve, Conch. Icon., Vol. III, pl. 4, fig. 20, 1845.

Murex (Chicoreus) palmiferus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 72, 1853, 1858; Angas, Proc. Zool. Soc., London, p. 186, No. 6, 1867; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 150, No. 55, 1877; Tryon, Manual of Conchology, Vol. II, p. 90, pl. 14, fig. 146, 1880; Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Annales de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 10, 1880; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 155, 1886.

Murex (Chicoreus) palmiferus, Tapparone-Canefri, Muricidi Del Mar Rosso, Annali del Museo Civico di Storia Naturale di Genova, Vol. VII, p. 580, 1875.

Murex palmiferus, Kobelt, Die Muriciden des rothen Meeres, Jahrb. d. deutsch. malak. Gesellsch., Vol. III, p. 42, No. 14, 1876; Sowerby, Thes. Conch., Vol. IV, p. 18, No. 84, pl. 4, Murex, fig. 41, 1879.

Murex (Tribulus) australis, Tryon, Manual of Conchology, Vol. II, p. 83, 1880.

Murex (Chicoreus) australis, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle Deuxième Série, Tome V, p. 32, No. 4, 1882.

Murex palmiferus, Sowerby; Whitelegge, List of the Marine and Fresh Water Invertebrate Fauna of Port Jackson and Neighbourhood, Journal and Proceedings of the Royal Society of New South Wales, Vol. XXIII, p. 246, No. 208, 1889.

Habitat.—Port Western, New Holland. (Quoy et Gaimard, 1829.) Sydney. (Dutailly.) New Holland. (M. J. Verreaux, 1846.) New Caledonia. (M. Deshayes, 1879.) Red Sea. (Sowerby, 1840.) North Australia. (Reeve, 1845.) Between Balls Head and Goat Island, 18 fathoms, bottom broken shells, stones, and gravel; Point Piper, Middle Harbour, Watson's Bay, under stones at low water spring tides; Cape Solander, South Head, and Cape Banks, North Head, of Botany Bay; South Head of Crook Haven River, Shoalhaven, found under stones low water springs; Montague Roads, Jervis Bay, near the rocks in 5 fathoms; Nelson Head and Bay, Port Stephens, New South Wales, under stones low water spring tides. (J. Brazier, 1854, 1892.) Woolloomooloo Bay. (G. F. Angas.) Neutral Bay, Port Jackson. (T. Whitelegge.) Yeppoon, Keppell Bay, Queensland. (George L. Pilcher, 1887.) Largs Bay, South Australia. (Arnold U. Henn, 1891.)

I have not seen this species any farther south of Sydney than Jervis Bay, where I dredged specimens on October 31, 1874. The specimens said to be obtained by Quoy and Gaimard at Port Western, New Holland (now Victoria), may have been dredged by them. I had not seen any species like it from Southern Australia, until quite recently, when two specimens were obtained from shell debris, by my friend Mr. Arnold U. Henn, at Largs Bay, South Australia, in November, 1891.

I quote M. M. J. Poirier, from the *Nouvelles Archives du Muséum D'Histoire Naturelle*, p. 65: "This species, of Quoy and Gaimard, misunderstood by all authors, has nearly the same geographical range as *M. corrugatus*, Sowerby, with which, besides, it has many analogies. It has been remarked on the northern coasts of Australia and in the Red Sea. It is represented by twelve individuals coming from Port Western (the types of Quoy and Gaimard, 1829), from Sydney (Coll. Dutailly), from New Holland (M. J. Verreaux, 1846), and from New Caledonia (M. Deshayes, 1874). The *M. australis*, Quoy and G., not figured in the atlas of the voyage of the "Astrolabe," has been lost in forgetfulness by the various writers who have dealt with the genus *Murex*. Tryon alone admits it, but without recognising its affinities, and he places it among the group of *Tribulus*. An examination of the types preserved in the collection of the Museum* has shown me that this species is no other than that described by Sowerby under the name of *M. palmiferus*. This denomination being the latest, ought then to pass into the synonymy."

* Museum of the Jardin des Plantes, Paris.

The Rev. Boog Watson, in his Report on the Gasteropoda of H.M.S. "Challenger," Zoology, Vol. XV, p. 155, appears to have followed Mr. Tryon in lumping *M. palmiferus*, Sowb., = *australis*, Quoy and G., with three distinct and well known species, namely, *Murex corrugatus*, Sowb.; *Murex multifrondosus*, Sowb.; and *Murex dilectus*, A. Adams.

Murex corrugatus, Sowerby.

Murex corrugatus, Sowerby, Proc. Zool. Soc., London, p. 142, 1840; Conchological Illustrations, species 44, fig. 72, 1840; Kiener, Iconographie Coquilles Vivantes, p. 43, No. 32, pl. 19, fig. 2, 1842; Reeve, Conch. Icon., Vol. III, pl. 13., fig. 52, 1845; Kuster, Conch., Cab., 2nd edition, p. 73, pl. 26, fig. 3. Vaillant, Recherche sur la faune Malacologique de la baie de Suez, Journ. de Conch., Vol. XIII, p. 105, No. 5, 1865; Fischer, Faune Conchyliologique de Suez Mer Rouge, Journ. de Conch., Vol. XIII, p. 244, 1865.

Murex (Chicoreus) corrugatus, H. and A. Adams, Genera of Recent Mollusca, Vol. II, Part III, p. 72, 1853, 1858.

Murex corrugatus, Issel, Malacologia Del Mar Rosso, p. 135, No. 292, 1869. Fischer, Sur la Faune Conchyliologique marine des baies de Suez et l'Akabah, Journ. de Conch., Vol. XVIII, p. 163, No. 5, 1870.

Murex (Chicoreus) corrugatus, Brazier, Proc. Linn. Soc., New South Wales, Vol. I, p. 171, No. 6, 1875, 1877; Tapparone-Canefri, Muricidi del Mar Rosso, Annali del Museo Civico di Storia Naturale di Genova, Vol. VII, p. 579, 1875; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 150, No. 57, 1877; Var., Tryon, Manual of Conchology, p. 90, pl. 14, fig. 147, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 64, No. 89, 1882.

Murex corrugatus, Kobelt, Die Muriciden des rothen Meeres, Jahrb. d. deutsch. malak. Gesellsch., Vol. III, p. 42, No. 13, 1876; Sowerby, Thes. Conch., Vol. IV, p. 19, No. 89, Murex, pl. 9, fig. 72, 1879.

Habitat.—North Australia. (Reeve.) Palm Island, North East Coast of Australia, now called North Queensland; two specimens brought up on the tangles from 8 fathoms, muddy bottom. (J. Brazier.)

Murex territus, Reeve.

Murex territus, Reeve, Proc. Zool. Soc., London, p. 108, 1845; Reeve, Conch. Icon., Vol. III, pl. 33, fig. 167, a, b, 1845.

Murex (Chicoreus) territus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 73, 1853, 1858; Kobelt, Catalog der Gattung Murex, in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 151, 1877; Tryon, Manual of Conchology, Vol. II, p. 91, pl. 15, fig. 152, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 62, No. 83, 1882.

Murex nubilus (= *territus*, jun.), Sowerby, Proc. Zool. Soc., London, p. 428, pl. 49, fig. 4, 1859.

Murex nubilus, Sowerby, Thes. Conch., Vol. IV, p. 7, Murex, pl. 9, fig. 71, 1879.

Murex territus, Sowerby, Thes. Conch., Vol. IV, p. 19, Murex, pl. 9, fig. 77, 1879; E. A. Smith, "Alert" Collections, p. 45, No. 17, 1884.

Habitat.—North Australia. (Lieutenant Ince, R.N.) Wide Bay and Port Curtis. (British Museum.) Between Home Islands and Cape Grenville, North East Coast of Australia, now North Queensland, 20–30 fathoms, sandy-mud bottom, brought up on the tangles. (J. Brazier, "Chevert" Expedition.) Port Molle, 15 fathoms, and Port Curtis, 0–11 fathoms. (Dr. R. W. Coppinger.) Port Curtis. (A.M.)

This species was inadvertently omitted from my list of Muricidæ collected during the "Chevert" Expedition, Proceedings of the Linnean Society of New South Wales, Vol. I, pp. 169, 172. And it is not found at Sydney, Australia, as quoted by Mr. Tryon in his Manual of Conchology, Vol. II, p. 91.

PHYLLONOTUS, Swainson, 1840; *MURICANTHUS*, Swainson, 1840; *CENTRONOTUS*, Swainson, 1835.*

Murex Stainforthi, Reeve.

Murex Stainforthi, Reeve, Proc. Zool. Soc., p. 104, 1842; Conch. Icon., Vol. III, pl. 17, fig. 68, 1845; Sowerby, Thes. Conch., Vol. IV, p. 36, Murex, pl. 16, fig. 158, 1879.

Murex (Phyllonotus) Stainforthi, H. and A. Adams, Genera of Recent Mollusca, Vol. II, Part III, p. 74, 1853, 1858; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 158, 1877; Tryon, Manual of Conchology, Vol. II, p. 104, pl. 26, fig. 237, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 83, No. 138, 1882.

Murex (Bassia) Stainforthi, Bayle, 1880 in Fischer Manuel de Conchyliologie, Fascicule, VII, p. 641, 1884.

* This name had been previously given to a genus of Fishes in 1801.

Habitat.—Nicol Bay, North West Australia. (W. H. Hargraves.) Port Darwin and Port Essington, North Australia. (T. W. Bednall and E. Spalding.) Two specimens are represented in the Museum of the Jardin des Plantes, Paris, said to have been found in New Caledonia. (M. J. Poirier.)

Murex endivia, Lamarck.

Martini, Conch. Cab., Vol. III, pl. 107, fig. 1008, 1777.

Murex cichoreum, Gmelin, Syst. Nat., p. 3530.

Murex endivia, Lamarck, Anim. sans Vert., Vol. VII, p. 168, 1822; edit. Deshayes; Vol. IX. p. 583. Crouch; Lamarck, Conch., pl. 18, fig. 1. Deshayes, Enc. Meth., Vers. III, p. 902. Sowerby, Conchological Illustrations, No. 92, 1841; Kiener, Iconographie Coquilles Vivantes, p. 52, pl. 35, fig. 1, 1842; Reeve, Conch. Icon., Vol. III, pl. 7, fig. 27, b, c, d, 1845; Kuster, Conch. Cab., 2nd edition, p. 42, pl. 17, fig. 7. Sowerby, Thes. Conch., Vol. IV, p. 32, *Murex*, pl. 16, figs. 153, 154, 1879; Gatliff, List of some shells of the Marine Mollusca found on the Victorian Coast, Victorian Naturalist, Vol. IV, p. 57, No. 4, 1887.

Murex saxatilis, Wood, Index. Testac., pl. 25, fig. 8.

Murex (Phyllonotus) endivia, Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 158, 1877; Tryon, Manual of Conchology, Vol. II, p. 102, pl. 26, fig. 227, 1880.

Habitat.—Portland Bay, Victoria, Southern Australia. (J. A. Gatliff.)

This species was sent to me for name some years ago by Mr. Gatliff, who informed me that he obtained it at the above locality. Since then, I have been informed that it was brought with other shells from the Indian Ocean. Probably, the species may be found on the west or north-west coast of Australia, but I have not seen any species like it from there.

Murex umbilicatus, Tenison-Woods.

Murex scalaris, A. Adams (non Brocchi), Proc. Zool. Soc., London, p. 71, 1853; Angas (non Brocchi), Marine Molluscan Fauna of South Australia, Proc. Zool. Soc., London, p. 157, No. 5, 1865.

Trophon umbilicatus, Tenison-Woods, Papers and Proceedings of the Royal Society of Tasmania, p. 135, 1875, 1876. Census; with brief descriptions of the Marine Shells of Tasmania and the adjacent islands. Papers and Proceedings of the Royal Society of Tasmania, p. 26, 1877, 1878.

Murex (Muricidea) scalaris, Brazier (non Brocchi), "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 172, No. 13, 1875, 1877.

Murex (Ocinebra) scalaris, Kobelt (non Brocchi), Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 248, No. 227, 1877.

Murex (Phyllonotus) Angasi, Tryon (non Crosse), Manual of Conchology, Vol. II, p. 109, 1880.

Murex (Phyllonotus) octogonus, Bednall (non Quoy and Gaimard), Transactions and Proceedings and Reports of the Royal Society of South Australia, Vol. VIII, p. 64, 1884, 1885 (issued May, 1886).

Habitat.—Moreton Bay, Queensland. (Mr. F. Strange.) St. Vincent's Gulf, South Australia, "dredged along with horny zoophytes and nullipores at a depth of seven or eight fathoms" (Angas, Tate, Bednall). Darnley Island, Torres Straits, 30 fathoms, sandy bottom. (J. Brazier.) Barran Island, Bass Strait. (Mr. W. Legrand, 1873.) Giles Point, near Coobowie, St. Vincent's Gulf, off the rocks below low water mark. (Mr. E. H. Matthews, 1891.) Trowbridge Island, St. Vincent's Gulf, off the beach, also dredged in life from 4 to 10 fathoms; fair specimens from Hardwicke Bay, Spencer's Gulf. (Mr. E. H. Matthews, 1892.) East Coast of Tasmania. (Mr. W. Legrand.) North Coast of Tasmania from Port Sorell to a few miles west of the River Leven, specimens generally very much beach worn. (Miss Mary Lodder, August, 1892.)

PTERONOTUS, Swainson, 1840.

Murex Bednalli, Brazier.

Murex (Pteronotus) Bednalli, Brazier, Proc. Linn. Soc., New South Wales, Vol. II, p. 6, 1877; Angas, Proc. Zool. Soc., London, p. 418, pl. 45, fig. 2, 1880; Brazier, Proc. Linn. Soc., New South Wales, Vol. V, p. 630, 1880; Tryon, Manual of Conchology, Vol. II, Addenda, p. 262, 1880.

Murex (Cerastoma) bednalli, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 98, No. 185, 1882.

Habitat.—Port Darwin, Northern Territory. (T. W. Bednall.)

Murex triformis, Reeve.

Murex acanthopterus, Var., Sowerby, Conchological Illustrations, fig. 51, 1840.

Murex triformis, Reeve, Proc. Zool. Soc., London, p. 87, 1845; Reeve, Conch Icon., Vol. III, pl. 13, fig. 53, 1845; Kuster, Conch. Cab., 2nd edition, p. 85, pl. 30, fig. 4.

Murex (Pteronotus) triformis, Angas, Proc. Zool. Soc., London, p. 157, 1865; Schmeltz, jr., Museum Godeffroy Catalog V, p. 131, No. 6,291, 1874; Kobelt, Jahrb. d. deutsch. malak. Gesellsch., p. 161, No. 138, 1877;

Tryon, Manual of Conchology, Vol. II, p. 85, pl. 40, fig. 511, 1880, 1882; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 92, No. 162, 1882; Bednall, Transactions and Proceedings and Report of the Royal Society of South Australia, Vol. VIII, p. 63, 1885 (1886); Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 156, 1886.

Murex triformis, Sowerby, Thes. Conch., Vol. IV, p. 21, pl. 2, Murex, fig. 92, pl. 13, fig. 126, 1879.

Habitat.—Port Lincoln, Spencer's Gulf, South Australia (A.M.), on oyster-banks, from 2 to 10 fathoms. (G. F. Angas.) Off East Monecœur Island, Bass Strait, 38 fathoms, sand and shells. (H.M.S. "Challenger.") Tasmania.

Murex acanthopterus, Lamarck.

Murex acanthopterus, Schröter, Einleitung in die Conchylien-Kenntniss, Vol. I, pl. 3, fig. 8, 1783; Lamarck, Anim. sans Vert., Vol. VII, p. 165 (edit. Deshayes), Vol. IX, p. 577; Sowerby, Conchological Illustrations, species 59, fig. 85, 1840; Kiener, Iconographie Coquilles Vivantes, p. 105, pl. 38, fig. 2, 1842; Reeve, Conch. Icon., Vol. III, pl. 16, fig. 64, 1845; Wood, Index Testaceologicus (edit. Hanley), p. 132, pl. 27, fig. 91, 1856; Kuster, Conch. Cab., 2nd edition, p. 98, pl. 34, fig. 2. Sowerby, Thes. Conch., Vol. IV, p. 21, pl. 10, Murex, fig. 90, pl. 13, fig. 127, 1879.

Murex (Pteronotus) acanthopterus, Angas, Port Jackson Mollusca, Proc. Zool. Soc., London, p. 186, 1867; Kobelt, Jahrb. d. deutsch. malak. Gesellsch., p. 238, No. 141, 1877; Tryon, Manual of Conchology, Vol. II, p. 85, pl. 40, fig. 512, 1880; Dunker, Index Molluscorum, Maris Japonici, p. 5, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum, D'Histoire Naturelle, Deuxième Série, Tome V, p. 91, No. 161, 1882; Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 155, 1886.

Murex (Alipurpura) acanthopterus, Bayle, 1884, in Fischer, Manuel de Conchyliologie, Fascicule VII, p. 641, 1884.

Habitat.—Watsons's Bay, Middle Harbour, Bottle and Glass Rocks, Port Jackson; Port Stephens, New South Wales, under stones low water spring tides. (J. Brazier.) Near Cape York, Queensland, 6 fathoms, Coral mud. (H.M.S. "Challenger.") Broken Bay. (A.M.) Japan? (Dr. G. Dunker.)

Murex pellucidus, Reeve.

Murex trigonularis, Sowerby (not of Lamarek), Conchological Illustrations, species 56, fig. 107, 1840.

Murex pellucidus, Reeve, Proc. Zool. Soc., London, p. 87, 1845; Reeve, Conch. Icon., Vol. III, pl. 14, fig. 54, 1845; Kuster, Conch. Cab., 2nd edition, p. 96, pl. 33, fig. 7.

Murex (Pteronotus) pellucidus, Brazier, "Chevert" Expedition Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 171, No. 9, 1875, 1877; Kobelt, Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 160, not 130, 1877; Tryon, Manual of Conchology, Vol. II, p. 87, pl. 41, fig. 530, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 91, No. 160, 1882.

Habitat.—Darnley Island, Torres Straits, 30 fathoms, white, sandy mud bottom, brought up in the tangles. (J. Brazier, "Chevert" Expedition.)

Murex osseus, Reeve.

Murex osseus, Reeve, Proc. Zool. Soc., London, p. 87, 1845; Conch. Icon., Vol. III, pl. 14, fig. 60, 1845; Kuster, Conch. Cab., 2nd edition, p. 92, pl. 32, fig. 8. Sowerby, Thes. Conch., Vol. IV, p. 21, pl. 10, Murex, fig. 91.

Murex (Pteronotus) osseus, Kobelt, Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 160, No. 131, 1877; Tryon, Manual of Conchology, Vol. II, p. 87, pl. 41, fig. 525, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième, Série V, p. 93, 1882.

Habitat.—Nicol Bay, north-west coast of Australia. (A.M.) (W. H. Hargraves.)

Murex Angasi, Crosse.

Typhis Angasi, Crosse, Journal de Conch., Vol. XI, p. 86, pl. 1, fig. 2, 1863.

Murex (Pteronotus) angasi, Angas, Proc. Zool. Soc., London, p. 186, No. 5, 1867.

Murex zonatus, Tenison-Woods, Proc. Roy. Soc., Tasmania, p. 132, 1876.

Typhis Angasi, Crosse, Kobelt in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 288, No. 2, 1877.

Murex cos, Hutton, Journal de Conch., Vol. XVIII, 3rd series, p. 12, 1878.

Murex Angasi, Sowerby, Thes. Conch., Vol. IV, p. 26, pl. 21, Murex, fig. 189, 190, 1879.

Murex (Pteronotus) angasi, Tryon, Manual of Conchology, Vol. II, p. 88, pl. 40, fig. 522, 1880; Poirier, Revision des Murex du Muséum,

Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 95, 1882; Bednall, Transactions and Proceedings and Report of the Royal Society of South Australia, Vol. VIII, p. 64, 1885 1886; Brazier, Proc. Linn. Soc. of New South Wales, Vol. II (2nd series), p. 993, No. 2, 1887.

Habitat.—Port Jackson, Broken Bay. (A.M.) Port Stephens, New South Wales; Tasmania; Victoria; South Australia; New Zealand; Norfolk Island.

Murex bipunctatus, Sowerby.

Murex bipunctatus, Sowerby, Thes. Conch., Vol. IV, p. 22, pl. 21, Murex, fig. 188.

Murex (Pteronotus) bipunctatus, Tryon, Manual of Conchology, Vol. II, p. 85; pl. 40, fig. 509, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 95, 1882.

Habitat.—Australia. (G. B. Sowerby.)

Murex cordismei, Watson.

Murex (Pteronotus) cordismei, Watson, Prelim. Report, Part XV, Journal Linnean Society, London, Vol. XVI, p. 601. Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 156, pl. 10, fig. 5, 1886.

Habitat.—Off East Moncœur Island, Bass Strait, 33 fathoms, sand and shells. (H.M.S. "Challenger.")

HOMALOCANTHA, Moreh, 1852.

Murex varicosus, Sowerby.

Murex varicosus, Sowerby, Proc. Zool. Soc., London, p. 145, 1840; Sowerby, Conchological Illustrations, species 76, fig. 49, 1841; Kiener, Iconographie Coquilles Vivantes, p. 91, pl. 28, fig. 2, 1842; Reeve, Conch. Icon., Vol. III, pl. 12, fig. 49, 1845; Sowerby, Thes. Conch., Vol. IV, p. 31, Murex pl. 15, fig. 139, 1879.

Murex (Homalocantha) varicosus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, part III, p. 74, 1853, 1858; Kobelt, Catalog der Gattung Murex in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 159, No. 121, 1877; Tryon, Manual of Conchology, Vol. II, p. 99, pl. 25, fig. 224, 1880; Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 89, No. 154, 1882.

Habitat.—Nicol Bay, North-west Australia. (W. H. Hargraves, A.M.)

OCINEBRA, Leach, 1847; *TRITONALIA*, Fleming, 1848.

***Murex tetragonus*, Broderip.**

Murex tetragonus, Broderip, Proc. Zool. Soc., London, p. 174, 1832; Sowerby, Conchological Illustrations, species 111, figs. 25, 36, 1841; Kiener, Iconographie, Coquilles, p. 87, pl. 5, fig. 2, 1842; Kuster, Conch. Cab., 2nd edition, p. 65, pl. 24, fig. 3.

Murex (Ocinebra) tetragonus, H. and A. Adams, Genera of Recent Mollusca, Part IV, Vol. I, p. 75, 1853; Schmeltz, jr., Museum Godeffroy, Catalog V, p. 131, No. 3,900, 1874; Kobelt, Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 252; No. 261, 1877; Brazier, "Chevert" Expedition, Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 171, No. 10, 1877, 1878;

Murex tetragonus, Sowerby, Thes. Conch., Vol. IV, p. 40, No. 188, Murex, pl. 33, fig. 223, 1879; Liénard, Catalogue de la Faune Malacologique, de l'île Maurice, p. 2, No. 15, 1877.

Murex (Ocinebra) tetragonus, E. v. Martens in Möbius Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen, p. 232, 1880; Tryon, Manual of Conchology, Vol. II, p. 121, pl. 36, fig. 424, 1880.

Murex (Pteronotus) tetragonus, Tapparone-Canefri, La Faune Malacologique de l'île Maurice, Mémoires de la Société Malacologique de Belgique, Tome XV (Deuxième Série, Tome V), p. 19, 1880.

Murex (Muricidea) tetragonus, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum D'Histoire Naturelle, Deuxième Série, Tome V, p. 102, No. 199, 1882.

Habitat.—Bet Island, Torres Straits, 11 fathoms, sandy bottom. (J. Brazier.)

***Murex mundus*, Reeve.**

Murex exiguus, Reeve, Proc. Zool. Soc., p. 2, 1845. Reeve (non Broderip, Kiener nec Garrett), Conch. Icon., Vol. III, pl. 32, species 166, 1845.

Murex mundus, Reeve, Conch. Icon. (Errata in Index species 166).

Murex (Muricidea) mundus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 75, 1853, 1858; Brazier, "Chevert" Expedition, Shells, Proc. Linn. Soc., New South Wales, Vol. I, p. 172, No. 12, 1877, 1878.

Murex (Ocinebra) mundus, Kobelt, Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 249, No. 237, 1877; Tryon, Manual of Conchology, Vol. II, pl. 36, fig. 427, 1880.

Murex mundus, Sowerby, Thes. Conch., Vol. IV, p. 39, No. 182, *Murex*, pl. 33, fig. 242, 1879.

Habitat.—Darnley Island, Torres Straits, 20 fathoms, coral bottom. (J. Brazier.)

This species is not described in the Proc. Zool. Society, as quoted by Mr. Reeve in Conch. Icon.

***Murex Brazieri*, Angas.**

Murex Brazieri, Angas, Proc. Zool. Soc., London, p. 171, pl. 26, fig. 3, 1877 ; A further List of Additional Species of Marine Mollusca to be included in the fauna of Port Jackson and the adjacent coasts of New South Wales, Proc. Zool. Soc., London, p. 179, No. 12, 1877 ; Sowerby, Thes. Conch., Vol. IV, p. 42, species 200, *Murex*, pl. 33, fig. 226 enlarged, 1879 ; Whitelegge, List of the Marine and Fresh Water Invertebrate Fauna of Port Jackson and neighbourhood, Journal and Proceedings of the Royal Society, New South Wales, Vol. XXIII, p. 246, No. 209, 1839 ; Brazier, Journal of Conchology, Vol. VI, p. 66, 1889.

Murex (Ocinebra) Brazieri, Tryon, Manual of Conchology, Vol. II, p. 132, pl. 30, fig. 289, 1880.

Murex (Muricidea) Brazieri, Poirier, Révision des *Murex* du Muséum, Nouvelles Archives du Muséum d'Histoire Naturelle, Deuxième Série, Tome V, p. 104, No. 208, 1852.

Habitat.—Dredged outside Port Jackson Heads in 20 fathoms. (J. Brazier, 1873) Middle Harbour, in shell sand. (Whitelegge.) South Australia. (W. T. Bednall.) (A.M.)

This species was sent to me by Mr. Bednall as the young of *Murex pumilus*, A. Adams, the latter species not being found in South Australia, but in China and Darros Island, Amirantes, in 22 fathoms.

***Murex planiliratus*, Reeve.**

Murex planiliratus, Reeve, Conch. Icon., pl. 31, fig. 149, 1845.

Murex (Ocinebra) planiliratus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 75, 1853, 1858 ; Kobelt, Catalog der Gattung *Murex* in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 248, No. 226, 1877.

Murex planiliratus (Hinds?), Sowerby, Thes. Conch., Vol. IV, p. 49, *Murex*, pl. 24, fig. 264, 1879.

Coralliophila costularis, Tryon (non Lamarek), Manual of Conchology, Vol. II, p. 208, pl. 65, fig. 366, 1880.

Murex (Ocenebra) planiliratus, Poirier, Revision des Murex du Muséum, Nouvelles Archives du Muséum d'Histoire Naturelle, Deuxième Série, Tome V, p. 126, No. 285, 1882.

Habitat.—Swan River, Western Australia. (Reeve.) Near Fremantle. (Dr. J. C. Cox, 1892.)

• ***Murex serotinus*, A. Adams.**

Murex serotinus, A. Adams, Proc. Zool. Soc., London, p. 268, 1851.

Murex (Ocenebra) serotinus, H. and A. Adams, Genera of Recent Mollusca, Vol. I, Part III, p. 75; 1853, 1858.

Murex serotinus, Angas, Molluscan Fauna of South Australia, Proc. Zool. Soc., London, p. 157, No. 4, 1865.

Murex serotinus=*Blainvillei*? Sowerby in Thes. Conch., Vol. IV, index p. 54, 1879.

Murex serotinus=*Murex cristatus* Var. *Blainvillei*, Tryon in Manual of Conchology, Vol. II, p. 254 index, 1880.

Murex serotinus, Bednall, Transactions and Proceedings and Report of the Royal Society of South Australia, Vol. VIII, p. 66, 1884-5, issued May, 1886.

Habitat.—Aldinga Bay, South Australia. (G. F. Angas.)

***VITULARIA*, Swainson, 1840.**

***Vitularia miliaris*, Gmelin.**

Murex Purpura scabra, Chemnitz, Conch. Cab., Vol. X, pp. 234, 246, pl. 161, fig. 1, 532, 1, 535; 1788.

Murex miliaris, Gmelin, Syst. Nat., Vol. I, Part VI, p. 3,536, No. 39, 1790; Dillwyn, Descriptive Catalogue of Recent Shells, Vol. II, p. 635, No. 10, 1817.

Murex vitulinus, Lamarek, Tableau Encyclopédique Méthodique, pl. 419, fig. 1, a b; 7 a b, 1816; Lamarek, Anim. sans Vert., Vol. VII, Part I, p. 173, No. 53, 1822; 2nd edition Deshayes, Vol. IX, p. 595, No. 53, 1843. Deshayes, in Encyclopédie Méthodique, Histoire Naturelle des Vers, Vol. III, p. 905, No. 24, 1832; Kiener, Coquilles Vivantes, p. 123, pl. 47, fig. 2, 1842; Menke, Molluscorum Novæ Hollandiæ, p. 24, No. 114, 1843; Kuster, Conch. Cal., 2nd edition, p. 48, pl. 19, figs. 5, 8.

Murex Purpura, Reeve, Conch. Icon., Vol. III, pl. 25, fig. 102, 1845.

Vitularia miliaris, Kobelt, Catalog der Gattung Vitularia in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 252, No. 1, 1877.

Murex (Vitularia) miliaris, Tryon, Manual of Conchology, Vol. II, p. 133, pl. 35, figs. 393, 387; 1880.

Habitat.—Nicol Bay North, West Australia; Osnaburg Point, Albany Pass, Cape York, North Queensland found under stones at low water. (J. Brazier, "Chevert" Expedition, 1875.) Torres Straits. (W. H. Hargraves, A.M.)

This species was inadvertently omitted by me from the Muricidæ of the "Chevert" Expedition Proceedings of the Linnean Society of New South Wales, Vol. I, pp. 169, 172; 1875, 1877.

PSEUDOMUREX, Monterosato, 1872.

Murex pholidotus, Watson.

Murex (Ocinebra) pholidotus, Watson, Prelim. Report, part 15, Journal Linnean Society, London, Vol. XVI, p. 602, 1883.

Murex (Pseudomurex) pholidotus, Watson, Report on the Gasteropoda Voyage of H.M.S. "Challenger" Zoology, Vol. XV, p. 158, pl. X, fig. 3, 1886.

Habitat.—Flinders Passage, Cape York, Torres Straits, 7 fathoms. (H.M.S. "Challenger.")

Murex polypleurus, Brazier, N. Sp.

Murex polypleurus, Brazier, Proc. Linn. Soc., New South Wales, Second Series, Vol. VIII, Part I, 1893.

Habitat.—MacDonnell, Fowler's Bay (Professor Tate). East side of St. Vincent's Gulf, South Australia (G. F. Angas). Port Lincoln (W. T. Bednell).

TYPHIS, Montfort, 1810.

Typhis arcuatus, Hinds.

Typhis arcuatus, Hinds, Proc. Zool. Soc., London, p. 19, 1843. Hinds, Voyage of H.M.S. "Sulphur," Mollusca, p. 10, pl. 3, fig. 1, 2; Sowerby, Thes. Conch., Vol. III, p. 320, No. 11, Thes. pl. 284, fig. 3, 4, 5; Reeve, Conch. Icon., Vol. XIX, pl. 3, fig. 10, 1874; Tenison-Woods, Papers and Proceedings Royal Society, Tasmania, p. 132, 1876; Kobelt, Catalog der Gattung Typhis in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 289, No. 14, 1877; Brazier, Proc. Linn. Soc., New South Wales, Vol. IV, p. 428; 1879, 80.

Typhis Japonicus, A. Adams, Proc. Zool. Soc., London, p. 374, 1862.

Typhis arcuatus, Tryon, Manual of Conchology, Vol. II, p. 136, pl. 30, fig. 293, 1880; Whitelegge, List of the Marine and Fresh Water Invertebrate Fauna of Port Jackson and Neighbourhood, Journal and Proceedings of the Royal Society of New South Wales, Vol. XXIII, p. 246, No. 211, 1889.

Habitat.—Cape of Good Hope, dredged on the L'Agulhas Bank, in from 40 to 44 fathoms (Mr. R. B. Hinds). Outer North Head of Port Jackson, near the rocks, 5 fathoms sand and shells, "Sow and Pig's Reef," 3 fathoms (J. Brazier, 1865). Long Bay, Bruny Island, Tasmania, 10 fathoms, sand bottom (Rev. H. D. Atkinson). Japan (A. Adams).

Typhis Cleryi, Sowerby.

Typhis Cleryi, Sowerby (non Petit), Thes. Conch., Vol. III, p. 320, Thes. pl. 284, fig. 14.

Typhis Cleryi.—Sowerby in Reeve, Conch. Icon., Vol. XIX, pl. 3, fig. 11, 1874.

Typhis Cleryi.—Brazier (non Petit), Proc. Linn. Soc., New South Wales, Vol. I, p. 9, 1875, 1877; Tryon (non Petit), Manual of Conchology, Vol. II, p. 137, pl. 30, fig. 302, 1880; Hutton (non Petit), Manual of the New Zealand Mollusca, p. 47, 1880.

Typhis philippensis, Watson, Prelim. Report, Part XV, Journal Linnean Society, London, Vol. XVI, p. 605, 1883; Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. XV, p. 162, pl. 10, fig. 4, 1886.

Typhis Cleryi, Sowerby, Whitelegge, List of the Marine and Fresh Water Invertebrate Fauna of Port Jackson and Neighbourhood, Journal and Proceedings of the Royal Society, New South Wales, Vol. XXIII, p. 246, No. 210, 1889.

Habitat.—Off Sydney Heads, 5 miles due east, 45 fathoms sandy bottom, June 3rd, 1874; Jervis Bay, 70 miles south of Sydney, 11 fathoms sand and gravel, October 24, 1874. (J. Brazier.) (A.M.) Station 161, April 1, 1874. Lat. 35° 30' S., long. 144° 36' 30" E. Off the entrance to Port Phillip, Melbourne, 33 fathoms sand. (H.M.S. "Challenger.")

This species is not found in New Zealand as quoted by Mr. Sowerby in the Thesaurus Conchyliorum and the Conchologia Iconica on the authority of Mr. G. F. Angas, the specimen came from New South Wales.

Typhis Cleryi, Petit, 1840, is a synonym of *Typhis Balcheri*, Broderip, 1832.

Typhis philippensis, Watson, cannot be separated from *Typhis Cleryi*, Sowerby

Typhis Yatesi, Crosse.

Typhis Yatesi, Crosse, Journal de Conch., Vol. XIII, p. 54, pl. 2, fig. 3, 1865; Angas, Molluscan Fauna of South Australia, Proc. Zool. Soc., London, p. 158, No. 7, 1865; Sowerby, Thes. Conch., Vol. III, p. 319, Thes., pl. 284, figs. 20, 21; in Reeve, Conch. Icon., Vol. XIX, pl. 3, fig. 14, 1874.

Typhis Yatesii, Kobelt, Catalog der Gattung Typhis in Jahrb. d. deutsch. malak. Gesellsch., Vol. IV, p. 288, No. 3, 1877; Tryon, Manual of Conchology, Vol. II, p. 137, pl. 30, fig. 294, 1889.

Typhis Yatesi, Bednall, Transactions and Proceedings and Report of the Royal Society of South Australia, Vol. VIII, p. 66, 1884-5, issued May, 1886.

Habitat.—Holdfast Bay, Semaphore, St. Vincent's Gulf, South Australia. (Angas, Tate, Bednall, Forwood.) Stausbury, South Australia. (Professor Tate.)

